

**NEMACUR EC400**Version 1 / TR
1020000068721/8
Revision Date: 06.07.2010
Print Date: 20.12.2010**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name NEMACUR EC400
Product code (UVP) 05338476
Usage Nematicide

Address Company: Bayer Türk Kimya San.Ltd.Şti
Fatih Sultan Mehmet Mah.
Balkan Cad. No. 53
34770 İstanbul (Ümraniye)
Türkiye
Factory: Bayer Türk Kimya San.Ltd.Şti
Barış Mah. Anibal Cad. No.1
41410 Gebze-KOCAELİ
Türkiye

Telephone 0216 528 36 00 (Ümraniye Merkez Ofis Santral)
Telefax 0216 528 78 70 (Ümraniye Merkez Ofis Santral)
Responsible Department Kalite, Sağlık, Güvenlik, Çevre Bölümü
Telephone: 0262 648 77 12
Telefax: 0262 641 20 72
Email: esra.guvenc@bayercropscience.com

Emergency telephone number 0262 641 20 70
Ulusal Zehir Merkezi 114

2. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**Emulsifiable concentrate (EC)
Fenamiphos 400 g/l**Hazardous components**

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Fenamiphos	22224-92-6 244-848-1	T+, N	R24, R28, R50/53	38,90
Xylene	1330-20-7 215-535-7	Xn	R10, R20/21, R38	27,00
Alkylaryl polyglycol ether	104376-75-2		R52/53	< 25,00
Nonylphenol ethoxylate	9016-45-9 5000246	Xn, N	R22, R41, R51/53	> 5,00 - < 25,00

For the full text of the R-phrases mentioned in this Section, see Section 16.

3. HAZARDS IDENTIFICATION**Risk advice to man and the environment**Flammable.
Very toxic if swallowed.
Toxic in contact with skin.



NEMACUR EC400

Version 1 / TR
102000006872

2/8
Revision Date: 06.07.2010
Print Date: 20.12.2010

Harmful by inhalation.
Irritating to skin.
Risk of serious damage to eyes.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

General advice

Move out of dangerous area. Place and transport victim in stable position (lying sideways).
Remove contaminated clothing immediately and dispose of safely.

Inhalation

Move to fresh air. Keep patient warm and at rest. Oxygen or artificial respiration if needed. Call a physician or poison control center immediately.

Skin contact

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Call a physician or poison control center immediately.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

Ingestion

Rinse mouth. Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract.) Call a physician or poison control center immediately.

Notes to physician

Symptoms

The symptoms of cholinesterase inhibition include: miosis, lacrimation, bradycardia, low blood pressure, Salivation, bronchial hypersecretion, Nausea, Vomiting, Diarrhoea, sweating, Muscular fasciculation, Myoclonus, respiratory paralysis, Somnolence, hypothermia, Convulsions

Risks

This product is a cholinesterase inhibiting organophosphorous pesticide.

Treatment

In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

The following antidotes are generally accepted: atropin and oximes.

Before antidote is administered, either clear symptoms of poisoning have to be present or the cholinesterase activity is inhibited to below 30% of normal.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray
Carbon dioxide (CO₂)
Foam
Sand



NEMACUR EC400

Version 1 / TR
102000006872

3/8
Revision Date: 06.07.2010
Print Date: 20.12.2010

Specific hazards during fire fighting

In the event of fire the following may be released:

Hydrogen cyanide (hydrocyanic acid)
Carbon monoxide (CO)
Oxides of phosphorus
nitrogen oxides (NOx)
Sulphur oxides

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.
In the event of fire, wear self-contained breathing apparatus.

Further information

Contain the spread of the fire-fighting media.
Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with spilled product or contaminated surfaces.
Use personal protective equipment.
Remove all sources of ignition.

Environmental precautions

Do not allow to get into surface water, drains and ground water.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated floors and objects thoroughly, observing environmental regulations.
Keep in suitable, closed containers for disposal.

Additional advice

Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.
Take measures to prevent the build up of electrostatic charge.

Storage

Requirements for storage areas and containers

Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Store in a place accessible by authorized persons only.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

**NEMACUR EC400**Version 1 / TR
102000006872

4/8

Revision Date: 06.07.2010

Print Date: 20.12.2010

Storage stability
Other data

Storage temperature should ideally lie between 0 and 40 °C, however, storage for two weeks at 54 °C has shown no adverse effects regarding product safety or stability.

Temperature tolerance min. max.
0 °C 40 °C**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Fenamiphos	22224-92-6	0,28 mg/m ³ (TWA)		OES BCS*
Xylene	1330-20-7	100 ppm (TWA)		OES BCS*
Xylene (Vapor.)	1330-20-7	50 mg/m ³	12 2004	
Xylene (Vapor.)	1330-20-7	150 mg/m ³	12 2004	

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection If product is handled while not enclosed, and if contact may occur:
Wear respirator with a particle filter mask (protection factor 20 conforming to European Norm EN149FFP3 or EN140P3 or equivalent).

Hand protection Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.

Eye protection Wear goggles conforming to EN166 (Field of Use 5 or equivalent).

Hygiene measuresAvoid contact with skin, eyes and clothing.
Keep working clothes separately.
Wash hands immediately after work, if necessary take a shower.
Remove soiled clothing immediately and clean thoroughly before using again.
Garments that cannot be cleaned must be destroyed (burnt).**Protective measures**If product is handled while not enclosed, and if contact may occur:
Complete suit protecting against chemicals**9. PHYSICAL AND CHEMICAL PROPERTIES**



NEMACUR EC400

Version 1 / TR
102000006872

5/8
Revision Date: 06.07.2010
Print Date: 20.12.2010

Appearance

Form	liquid, clear
Colour	brown
Odour	aromatic

Safety data

pH	4,8 - 5,8 1 %at(23 °C)
Flash point	35 °C
Density	ca. 1,03 g/cm ³ 20 °Cat
Water solubility	emulsifiable

10. STABILITY AND REACTIVITY

Thermal decomposition	from 150 °C , Heating rate: 3 K/min Measured in glass. The value mentioned relates to the active ingredient.
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 (rat) 10 mg/kg Test conducted with a similar formulation.
Acute dermal toxicity	LD50 (rat) 161 mg/kg Test conducted with a similar formulation.
Skin irritation	Moderate skin irritation. (rabbit) Test conducted with a similar formulation.
Eye irritation	Moderate eye irritation. (rabbit) Test conducted with a similar formulation.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish	LC50 (Lepomis macrochirus (Bluegill sunfish)) 0,0093 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient.
Toxicity to aquatic invertebrates	EC50 (Water flea (Daphnia magna)) 0,0019 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient.

**NEMACUR EC400**Version 1 / TR
102000006872

6/8

Revision Date: 06.07.2010
Print Date: 20.12.2010

Toxicity to aquatic plants IC50 (Desmodesmus subspicatus) > 10 mg/l
Growth rate Exposure time: 72 h
The value mentioned relates to the active ingredient.

13. DISPOSAL CONSIDERATIONS**Product**

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION**ADR/RID/ADNR**

UN-Number	3017
Labels	6.1 (3)
Packaging group	II
Hazard no.	63
Description of the goods	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (FENAMIPHOS, XYLENE SOLUTION)
Tunnel Code	D/E

This classification is in principle not valid for carriage by tank vessel on inland waterways.
Please refer to the manufacturer for further information.

IMDG

UN-Number	3017
Labels	6.1 (3)
Packaging group	II
EmS	F-E , S-D
Marine pollutant	Marine Pollutant
Description of the goods	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (FENAMIPHOS, XYLENE SOLUTION)

IATA

UN-Number	3017
Labels	6.1 (3)
Packaging group	II
Description of the goods	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (FENAMIPHOS, XYLENE SOLUTION)

15. REGULATORY INFORMATION

Labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.



NEMACUR EC400

Version 1 / TR
102000006872

7/8
Revision Date: 06.07.2010
Print Date: 20.12.2010

Classification:

Labelling according to EC Directives

Hazardous components which must be listed on the label:

- Fenamiphos
- Xylene

Symbol(s)

T+ Very toxic
N Dangerous for the environment

R-phrases(s)

R10 Flammable.
R20 Harmful by inhalation.
R24 Toxic in contact with skin.
R28 Very toxic if swallowed.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of soap and water.
S35 This material and its container must be disposed of in a safe way.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S57 Use appropriate container to avoid environmental contamination.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.

Further information

WHO-classification: Ia (Extremely hazardous)

16. OTHER INFORMATION

Further information

Text of R-phrases mentioned in Section 2

R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R22 Harmful if swallowed.
R24 Toxic in contact with skin.
R28 Very toxic if swallowed.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



NEMACUR EC400

Version 1 / TR
102000006872

8/8

Revision Date: 06.07.2010

Print Date: 20.12.2010

The information given in this Data Sheet has been included in accordance with the guidelines established by Regulation (EC) 1907/2006. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.